

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/890,266	03/27/2002	Tadao Ohno	P21324	9535	
7055	7590 10/23/2006	,	EXAM	INER	
GREENBLUM & BERNSTEIN, P.L.C.			YU, MI	YU, MISOOK	
1950 ROLAI RESTON, V	ND CLARKE PLACE 'A 20191		ART UNIT	PAPER NUMBER	
122131,			1642		
			DATE MAILED: 10/23/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applica	tion No.	Applicant(s)			
		266	OHNO ET AL.			
Office Action Summary	Examin	er	Art Unit			
		KYU, Ph.D.	1642			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this com - If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for repl Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	AAILING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply and will, by statute, cause the a	FHIS COMMUNICATION event, however, may a reply be tim will expire SIX (6) MONTHS from polication to become ABANDONE	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
 Responsive to communication(s) file 2a) This action is FINAL. Since this application is in condition closed in accordance with the pract 	2b) ☐ This action is for allowance exce	non-final. ot for formal matters, pro				
Disposition of Claims						
4) Claim(s) 1 and 3-19 is/are pending 4a) Of the above claim(s) is/a 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-7,9,11-16,18 and 19 is 7) Claim(s) 8, 9, 17 is/are objected to. 8) Claim(s) are subject to restri Application Papers 9) The specification is objected to by the specification is objected to by the specification is objected to by the specification is objected to be applicant may not request that any object Replacement drawing sheet(s) including 11) The oath or declaration is objected to	re withdrawn from of are rejected. ction and/or election e Examiner. a) accepted or ction to the drawing(so the correction is required.	requirement. D) objected to by the E be held in abeyance. See wired if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (Factoring of the Company of the Co	PTO-948)	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa	te			

Art Unit: 1642

DETAILED ACTION

Claims 1 and 3-19 are pending and under prosecution.

Claim Rejections - 35 USC § 102, Maintained

Claims 1, 3-7, 9, 11-16, 18, and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat. 5, 861,159 (19 January 1999).

Claim 1, and its dependent claims are drawn to a composition comprising two main components of (1) "a microparticle" comprising a fragment of solidified tumor tissues or cells, wherein the size of the fragment to allow phagocytosis, and (2) at least one isolated cytokine or cytokine-inducing agent, wherein the dependent claim 3 further limits that the composition of the base claim further comprises an adjuvant, wherein claim 4, 5, 12-16 further limit the base claim that the tumor vaccine comprises granulocyte-macrophage-colony stimulating factor (GM-CSF), interleukin- 2, or a cytokine-controlled release preparation, and claim 19 further limits that the fragment of the base claim is a tumor antigen bound to a particle. Claim 6 is drawn to vaccine composition comprising a microparticle" comprising a fragment of solidified tumor tissues or cells, wherein the size of the fragment to allow phagocytosis, and the vaccine further comprises an adjuvant in the dependent claim 7.

Applicant argues that the prior art of record uses irradiated tumor tissues or cells, which do not resemble the claimed "solidified tumor tissues or cells".

This argument has been fully considered but found unpersuasive.

The '159 patent at column 13, lines 1-10 discloses:

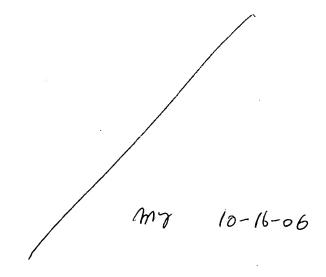
FIG. 2 shows the histology of immunization sites from B16F10 melanoma mixed with gelatin/chondroitin sulfate beads. C57BL6 mice were immunized subcutaneously with 1.times.10.sup.6 irradiated B16-F10 melanoma cells admixed with 1.times.10.sup.6 gelatin/chondroitin sulfate microspheres containing either nothing (control) (A,B).

The tumor vaccine used in Fig. 2 C-H are tumor vaccine comprising a microparticle comprising cells, without soluble tumor antigen from the solidified tumor tissues or cells being present in a soluble form, because the tumor cells mixed with gelatin/chondroitin sulfate beads are not soluble, i.e. they would not be in the supernatant if centrifuged at 15,000 rpm for 3 minutes (see page 19 of the instant specification).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MISOOK YU, Ph.D. whose telephone number is 571-272-0839. The examiner can normally be reached on 8 A.M. to 5:30 P.M., every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Application/Control Number: 09/890,266

Art Unit: 1642

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MISOOK YU, Ph.D. Primary Examiner

Art Unit 1642